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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/625,710	
	Filing Date	July 25, 2000	
	First Named Inventor	Alfred E. Keller	
	Group Art Unit	1764	
	D Rudnick	T. Vanoy	
Total Number of Pages in This Submission	10	Attorney Docket Number	1856-00301 (98/003)

### ENCLOSURES (check all that apply)

☐ Fee Transmittal Form

☐ Fee Attached

☒ Amendment/Reply

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/  
Incomplete Application

☐ Response to Missing Parts  
under 37 CFR 1.52 or 1.53

☐ Assignment  
(for an application)

☐ Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a  
Provisional Application

☐ Power of Attorney, Revocation  
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☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s)

☐ After Allowance Communication  
to Group

☐ Appeal Communication to Board  
of Appeals and Interferences

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(Appeal Notice, Brief, Reply Brief)

☐ Proprietary Information

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☒ Other Enclosure(s) (please  
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CONLEY ROSE & TAYON

Signature

Carol G. Mintz

Date

April 22, 2002

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Alfred E. Keller

APP. NO.: 09/625,710

FILED: July 25, 2000

FOR: Process for Producing Syngas  
In a Short Contact Time Reactor  
Using Catalytic Partial Oxidation  
of Hydrogen Sulfide

GROUP ART UNIT: 1764

EXAMINER: D. W. Rudnick

Atty Dkt. No. 1856-00301(98/003)

Date: April 22, 2002

RESPONSE TO OFFICE ACTION DATED FEBRUARY 4, 2002

Commissioner for Patents  
Washington, DC 20231

Sir:

Applicants acknowledge receipt of the Office Action dated February 4, 2002 in the above-identified matter. In response, Applicants request consideration of the following amendments and remarks.

AMENDMENTS

In the Claims:

Please cancel claims 1-7, 13 and 18-20, without prejudice.

Please amend claims 8 and 9 to read, respectively, as follows:

8. (Amended) A system for the partial oxidation of light hydrocarbons and the partial oxidation of H<sub>2</sub>S, comprising a hydrocarbon injection line, an H<sub>2</sub>S injection line in communication with said hydrocarbon injection line, an oxygen injection line in communication with said hydrocarbon injection line, a reaction zone receiving gases from said hydrocarbon, H<sub>2</sub>S and oxygen injection lines and including a catalyst suitable for catalyzing the partial oxidation of said hydrocarbon and the partial oxidation of H<sub>2</sub>S to form CO, H<sub>2</sub>, elemental sulfur and H<sub>2</sub>O.

9. (Amended) The system according to claim 8 comprising a mixing zone upstream of said reaction zone, said mixing zone adapted for receiving said hydrocarbon, H<sub>2</sub>S, and oxygen gases.

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